

鉅鼎國際智慧財產權有限公司
GREATTOP INTERNATIONAL INTELLECTUAL PROPERTY RIGHTS Co., Ltd.

台中市南區美村路二段181號5樓之2
5F-2 NO. 181, Section 2, Mei Tsun Road, South District,
Taichung, Taiwan R.O.C.
TEL : (04)2263-2731 FAX : (04)2263-2077

天擎科技智產權有限公司

台北縣永和市中和路429號10樓之1

TEL: 02-32333012

FAX: 02-29264977

發文日期：2005年2月15日

王榮輝 先生：

有關本所文號GFP-922028，申請號10/608,578“電子扭力工具結構改良
(一)”一案。申請人同意辦理答辯，煩請貴公司辦理。謝謝。

敬 祝
商 祺

鉅鼎國際智慧財產權有限公司
蘇建輝





UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMPTROLLER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
104508,578	06/24/2003	Chih-Ching Hsien	PUSAO 30603	8194
1290 10/28/2004 Chih-Ching Hsien 58 MA YUAN WEST ST. TAICHUNG, TAIWAN		EXAMINER DAVIS, OCTAVIA L. ART UNIT 2855 PAPER NUMBER		

DATE MAILED: 10/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

1/28

BEST AVAILABLE COPY

Office Action Summary	10808,578	HAIEN, CHIH-CHING
Examiner Octavio Davis	Art Unit 2855	

- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may require any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on 8/2/04.
 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1835 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) 1-10 is/are pending in the application.
 4a) Of the above claim(s) 4 is/are withdrawn from consideration.
 5) ☒ Claim(s) 2 is/are allowed.
 6) ☒ Claim(s) 1,2 and 5-10 is/are rejected.
 7) ☐ Claim(s) _____ is/are objected to.
 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.
 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some c) ☐ None of:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
 * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-682) 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-646) 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB-08) Paper No(s)/Mail Date _____	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date _____ 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) 6) <input type="checkbox"/> Other: _____
---	---

U.S. Patent and Trademark Office
 PTO-L-325 (Rev. 1-04)

Office Action Summary

Part of Paper No./Mail Date 6162004

BEST AVAILABLE COPY

Application/Control Number: 10/608,578
Art Unit: 2855

Page 2

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1 and 5 - 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Putney.

Regarding claims 1, 7 and 8, Putney discloses a bending beam torque wrench comprising a main body 51 and a strain gauge 46 mounted in the main body, wherein the main body is provided with an opening 56, 57 to enhance flexibility of the main body and to increase deformation of the strain gauge (See Cola. 3 and 4, lines 50 - 62 and 1 - 10) wherein the strain gauge 46 is integrally mounted in the opening (See Fig. 4, See Col. 4, lines 6 - 8).

Regarding claims 5 and 6, the opening 56 of the main body has a rectangular shape (See Col. 4, lines 6 - 8).

Regarding claim 9, a cover 70 is directly mounted on the main body in a riveting manner (See Figs. 1 and 2).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained through the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

BEST AVAILABLE COPY

Application/Control Number: 10/608,578

Page 3

Art Unit: 2855

4. Claims 2 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Putney in view of Kroll et al.

Regarding claims 2 and 10, Putney discloses all of the limitations of these claims except for a teaching that the opening extends through a longitudinal length of the main body. However, Kroll et al disclose a double ended shear beam load cell 10 comprising a main body 11 that includes a longitudinally extending opening 16 (See Fig. 1, See Col. 2, lines 64 - 69).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Putney according to the teachings of Kroll et al for the purpose of, providing a stress isolation member with minimum thickness allowing strain gauge means to be placed as closely as possible to the neutral axis of the center beam, while maintaining the strength of the overall structure to prevent over bending or breaking (See Kroll et al, See Col. 3, lines 17 - 20).

Allowable Subject Matter

5. Claim 3 is allowed.

Response to Arguments

6. Applicant's arguments with respect to these claims have been considered but are moot in view of the new grounds of rejection.

Conclusion

BEST AVAILABLE COPY

Application/Control Number: 10/608,578

Page 4

Art Unit: 2855

Ritzman (4,982,612) teaches a torque measuring wrench with electronic means for measuring torque.

Becker et al (4,643,030) teach a torque measuring apparatus.

Becker (6,070,506) teaches a clutching electronic torque wrench.

Curry (6,796,190) teaches an electronic torque wrench.

Jenkins (6,276,243) teaches an electromechanical releasing torque wrench.

7. Any inquiry concerning this communication should be directed to Examiner Octavia Davis at telephone number (571) 272 - 2176. The examiner can normally be reached on Monday - Thursdays (9:00 - 5:00), Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz, can be reached on (571) 272 - 2180. The fax phone number for the organization where this application where this application or proceeding is assigned is (703) 872 - 9306.

OD/2855

10/19/04


EDWARD LEFKOWITZ
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

BEST AVAILABLE COPY

Notice of References Cited	APPROPRIATE CLASSIFICATION 10808,676	APPROPRIATE OFFICE ACTION Reexamination HSIEN, CHIH-CHING	
	Examiner Odavia Davis	Art Unit 2855	Page 1 of 1

U.S. PATENT DOCUMENTS					
*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-6,228,827	07-1998	Kroll et al.	177/211
	B	US-4,813,604	03-1989	Kroll, William P.	177/21
	C	US-4,128,018	11-1978	Lehoucq et al.	73/852.23
	D	US-4,982,612	01-1981	Rikmann, Nancy C.	73/852.23
	E	US-6,070,606	06-2000	Becker, Thomas P.	81/470
	F	US-6,798,180	09-2004	Curry, David D.	73/852.21
	G	US-6,276,243	08-2001	Jenkins, Bradley G.	81/470
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS					
*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Classification
	N				
	O				
	P				
	Q				
	R				
	S				
	T				

NON-PATENT DOCUMENTS		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Particular Pages
*		
	U	
	V	
	W	
	X	

A copy of this reference is not being furnished with this Office action. (See MPEP § 707.02(a).)
 Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office
 PTO-502 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 8162004

BEST AVAILABLE COPY

Page 1 of 2

GFP-922028



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
Address CORRECTOR OF PATENTS AND TRADEMARKS
PO Box 1418
Alexandria, Virginia 22313-1418
www.uspto.gov

APPL NO.	FILING OR 371 (2) DATE	ART UNIT	FILE FEE REC'D	ATTY. DOCKET NO.	DRAWINGS	TOT CLMS	IND CLMS
10/808,578	08/25/2003	2855	375	PUBAO 30603	13	10	1

CONFIRMATION NO. 8394

Chih-Ching Hsien
58 MA YUAN WEST ST.
TAICHUNG,
TAIWAN

FILING RECEIPT



0C000000010607792

Date Mailed: 08/23/2003

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-0195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Chih-Ching Hsien, Taichung, TAIWAN;

Domestic Priority data as claimed by applicant

Foreign Applications

If Required, Foreign Filing License Granted: 09/22/2003

Projected Publication Date: 12/30/2004

Non-Publication Request: No

Early Publication Request: No

** SMALL ENTITY **

Title

Electronic torsional tool

Preliminary Class

073